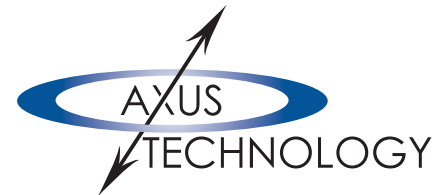


Motor Current End Point Detection System (EPD)



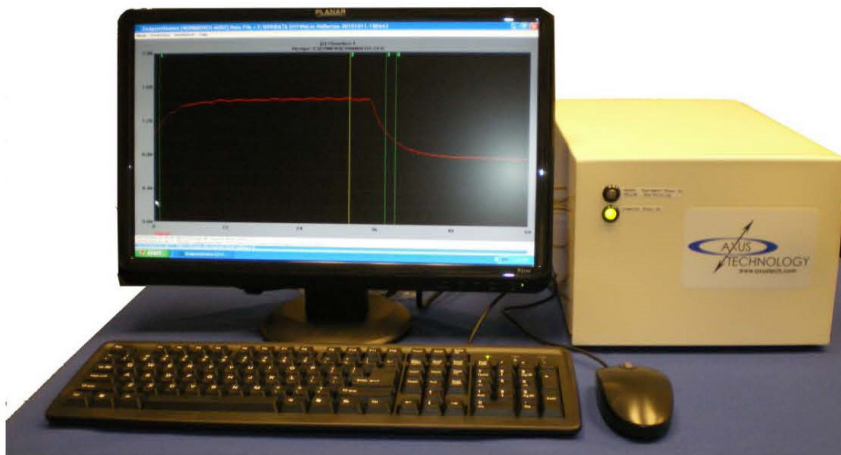
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Hardware for the system includes:

- EPD, including analog I/O, digital relay board, and support hardware (relays, terminal blocks, fuses, etc)
- Data acquisition card in system PC
- CPU and hard drive for EPD system

Software for the system includes:

- Software for performing all EPD functions, including algorithm development, configuring and assigning EPD recipes for polish processes, and playback and review of acquired EPD signal data
- Software for enabling EPD function in process recipes, and assigning EPD recipes to process recipes



The endpoint detection (EPD) system to be installed is the system originally developed and marketed by IPEC. The system includes data collection hardware for measuring the motor current signal on the platen or carrier rotation, and software for creating and applying customer-developed algorithms for monitoring the polishing process, detecting process endpoint, and controlling the process end time based on the endpoint detection function.



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